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(71) Applicants (for all designated States except US):  
BASF AKTIENGESELLSCHAFT [DE/DE]; ., 67056  
Ludwigshafen (DE). **THE PROCTER & GAMBLE  
COMPANY** [US/US]; One Procter & Gamble Plaza,  
Cincinnati, OH 45202 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FRENZ, Volker**  
[DE/DE]; Siebenmorgenweg 8, 55246 Mainz-Kos-  
theim (DE). **GÖRTH, Felix, Christian** [DE/DE];  
Carl-Bosch-Strasse 92, 67063 Ludwigshafen (DE).  
**STEPHAN, Oskar** [DE/DE]; Kolpingstr.1/1, 68766  
Hockenheim (DE). **WEIDL, Christian, Hubert** [DE/DE];  
Spelzenstr. 9, 68167 Mannheim (DE). **MERRIGAN,  
Steven, R.** [US/US]; 7830 Plantation Drive, West Chester,

OH 45069 (US); **HUHN, Wolfgang, Edgar** [DE/IT];  
Strada Dell ' Acquedotto, 10, I-66013 Chieti (IT). **GOLD-  
MAN, Stephen, A.** [US/IT]; Via Colle Di Moro, 62,  
I-65013 Citta Sant' Angelo (Pescara) (IT). **BECK, Martin**  
[DE/DE]; Waldstrasse 31 b, 67133 Maxdorf (DE).

(74) Common Representative: **BASF AKTIENGE-  
SELLSCHAFT**; 67056 Ludwigshafen (DE).

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(54) Title: POLYMERIZING HYDROGELS INCLUDING MODIFYING COMPOUNDS TO COMPRISE LOW AMOUNT OF  
RESIDUAL MONOMERS AND BY-PRODUCTS AND TO OPTIMIZE MATERIAL PROPERTIES

(57) Abstract: The present invention relates to polymerized hydrogels and processes to make such hydrogels, in particular hydrogel adhesives which are capable of attaching to mammalian skin and can be used in various personal care products, such as waste-man-  
agement articles, and a variety of functional articles to be worn by a human. The hydrogels described herein are characterized by very  
low amount of residual starting monomers, impurities, and/or by-products that could be formed during polymerization. Specifically,  
the hydrogels are made by adding scavengers and/or chain transfer agent prior to polymerization. It has been found, that upon addition  
of same scavengers the material properties of the polymerized hydrogel differ from the properties of gels polymerized without the  
scavenger. This is due to the fact, that these specific scavengers act also as chain transfer agents in the radical polymerization. Further  
studies showed that also chain transfer agents, that are no scavengers for residual monomer(s), impurities or byproducts influence  
the material properties of the polymerized hydrogel adhesive.

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